Textbook Sections : 13.2, 13.6, 13.8, 13.9, 13.11

1. I know how energy is transferred from the Sun to Earth and the percentage that is reflected back into space.
2. I understand how water is a good heat sink and absorbs energy.
3. I understand what convection is and how it relates to prevailing winds and ocean currents.
4. I understand the Coriolis Effect.
5. I can explain the two causes of prevailing winds.
6. I can label the prevailing winds on a map of the Earth.
7. I know what the *hydrosphere* is and understand that water is continually cycled on Earth.
8. I can explain the two main processes by which water enters the atmosphere.
9. I understand how ocean currents move energy from the Sun around the world.
10. I know what causes ocean currents.
11. I understand and can explain the three ways clouds are formed.
12. I can show how stratus and cumulus clouds differ by a diagram.

Key Terms

conduction

convection

Coriolis effect

cumulus clouds

frontal clouds

heat sink

hydrosphere

jet stream

ocean currents

orographic clouds

prevailing winds

radiation

stratus clouds

weather dynamics

Review questions

p. 541-542

3, 10 (a), 12, 14-16, 23, 27

added questions:

28. Draw a diagram of the prevailing winds on Earth and label each one.

29. Explain the general pattern of ocean currents:

a) above the equator.

b) below the equator.

30. What is the difference between stratus and cumulus clouds?